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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,068	11/25/2003	David A. Cooper	5469-8	4161
7590	03/17/2005		EXAMINER	
Robert S. Lipton, Esquire LIPTON, WEINBERGER & HUSICK 201 North Jackson Street P.O. Box 934 Media, PA 19063-0934			SAMPLE, DAVID R	
			ART UNIT	PAPER NUMBER
			1755	
DATE MAILED: 03/17/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/722,068	COOPER ET AL.	
	Examiner David Sample	Art Unit 1755	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
 THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 March 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-19 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-19 is/are rejected.
 7) Claim(s) 17-19 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Objections

Claims 17 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

MPEP: 608.01(n) III recites the test for proper dependent claims:

The test as to whether a claim is a proper dependent claim is that it shall include every limitation of the claim from which it depends (35 U.S.C. 112, fourth paragraph) or in other words that it shall not conceivably be infringed by anything which would not also infringe the basic claim.

Claim 17 can be infringed by a material that is not made by the process of claim 10 because the claim only requires that the material be "obtainable" by the process of claim 10. In other words, it is conceivable that a material can be made by a different process that is identical to a material obtained from the process of claim 10. Such a material would infringe claim 17, but not claim 10. Accordingly, claim 17 is an improper dependent claim.

Claims 18 and 19 are objected to for failing to correct the deficiencies of claim 17.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 rejected under 35 U.S.C. 102(b) as being anticipated by Amiridis et al. (US Patent No. WO 95/15208).

Amiridis et al. discloses a zeolite Y (i.e., faujasite) having:

- A Si/Al ratio of 13.79 (i.e., a $\text{SiO}_2/\text{Al}_2\text{O}_3$ ratio of 27.58),
- A unit cell size of 24.32 Å, and
- A total surface area of $845 \text{ m}^2/\text{gm}$ (i.e., a micropore surface area of $743 \text{ m}^2/\text{g}$ and a mesopore surface area of $102 \text{ m}^2/\text{gm}$).

These properties anticipate the relevant property recitations in claims 1, 3, and 7.

It is noted that the surface area of the reference is less than 875, 880, or 900 m^2/g , however, each of these ranges are preceded by the word ‘about’ which broadens the range. In other words, the surface area of the reference is deemed to anticipate the claim 1, 3, and 7 range in view of the latitude in interpreting the word “about” in claims.

The recitations of instant claim 2 can be found in the reference at page 6, line 23.

The reference fails to disclose the micropore volume of the disclosed zeolite Y.

However, the zeolite product of the reference is indistinguishable from the presently claimed zeolite. Moreover, micropore volume and surface area are integrally related, and the reference discloses a surface area that is the same as the claimed surface area. For these reasons, the claimed micropore volume is assumed to be inherent to the zeolite of the reference.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 1755

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6, 8-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper et al. (US Patent No. 5,242,677).

Cooper et al. discloses a zeolite Y having a $\text{SiO}_2/\text{Al}_2\text{O}_3$ ratio of 40-70, a surface area of 700-900 m^2/gm , and a unit cell size of 24.09-24.14 Å. See col. 4, lines 42-45. These ranges overlap the ranges for these properties recited in instant claims 1, 3, 4 and 10. Overlapping ranges have been held to establish *prima facie* obviousness. See MPEP 2144.05.

The reference does not specifically disclose the method of measuring the surface area, however, lacking evidence to the contrary, one of ordinary skill in the art would expect to have the same surface area regardless of the method of measuring the surface area.

The recitations of instant claim 2 can be found in the reference at column 3, lines 10-13.

The reference does not disclose the properties of claims 5 and 6, however, one of ordinary skill in the art would expect that the zeolite of the reference would have the claimed properties because the remainder of the properties overlap, and the process recited in the reference performs the same steps as the present invention.

As to the method claims, Cooper et al. describes a method in which a zeolite Y having a $\text{SiO}_2/\text{Al}_2\text{O}_3$ ratio of 4.5-5.5 is ion exchanged to a Na_2O level of 1-4%. See col. 3, lines 1-15. This zeolite is steam calcined at a temperature of 900-1300° F (i.e., 482-704° C) at a partial pressure of steam of 0.2-1 atm. See col. 2, lines 6-11. Lastly, the zeolite is acid treated. See col. 2, lines 45-49.

The alkali metal levels, SiO₂/Al₂O₃, and calcining temperature overlap the ranges recited in claims 10 and 11. Again, overlapping ranges have been held to establish *prima facie* obvious.

The recitations of instant claims 12-16 can be found in the reference at column 2, lines 45-49 and col. 3, lines 44-46.

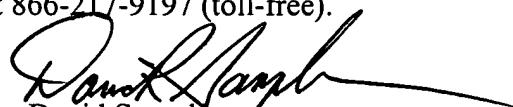
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Sample whose telephone number is (571)272-1376. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (572)272-1233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



David Sample
Primary Examiner
Art Unit 1755